To: Garrahan, Kevin[Garrahan.Kevin@epa.gov]
From: Smith, Terry

Sent: Wed 8/12/2015 1:14:51 PM

Subject: Re: PALs

No rush. No data ye t

From: Garrahan, Kevin

Sent: Wednesday, August 12, 2015 9:10 AM

To: Smith, Terry **Subject:** FW: PALs

FYI. I'm be down to EOC in 5 minutes.

Kevin

From: Choudhury, Harlal

Sent: Wednesday, August 12, 2015 9:01 AM

To: Garrahan, Kevin

Cc: Sayles, Gregory; Taft, Sarah; Koglin, Eric

Subject: RE: PALs

As listed in the PAL table:

Arsenic:

Oral (mg/L)

	24Hr	30 day	90 day	2yr.	
PAL 1	3.5	1.0	0.84	0.14	

PAL2	4.7	1.9	1.3	0.42				
PAL3	140	4.2	NR	0.8				
Inhalation:								
PAL1: - NR								
PAL2	0.11	0.021	NR	NR				
PAL3	0.32	0.063	NR	NR				
We do not have values for other metals like lead, cadmium, zinc.								
LEAD; EPA recommends IEUBK model for Lead								
Zinc: Available in IRIS								
Hope this will help.								
Thanks Kevin								
Harlal								

From: Garrahan, Kevin Sent: Tuesday, August 11, 2015 5:11 PM **To:** Choudhury, Harlal Cc: Sayles, Gregory; Taft, Sarah; Koglin, Eric Subject: PALs Harlal, I'm working in EPA's Emergency Operations Center (EOC) providing technical support on the Gold King Mine/Animas River toxic sludge spill in Colorado. Quick question for you -- Do we have any PALs for the following chemicals of concern: 1. Lead 2. Arsenic 3. Aluminum 4. Cadmium 5. Lead 6. Thallium 7. Zinc I would be surprised if we had PALs for any of these, but would appreciate you double checking. Thanks! Kevin